

NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN-E

ABSTRACT

The invention provides isolated nucleic acids
5 that encode three novel isoforms of human pregnancy
associated plasma protein E, hPAPP-E, and fragments
thereof, vectors for propagating and expressing PAPP-E
nucleic acids, host cells comprising the nucleic acids
and vectors of the present invention, proteins, protein
10 fragments, and protein fusions of the novel PAPP-E
isoforms, and antibodies thereto. The invention
further provides transgenic cells and non-human
organisms comprising human PAPP-E isoform nucleic
acids, and transgenic cells and non-human organisms
15 with targeted disruption of the endogenous orthologue
of the human PAPP-E gene. The invention further
provides pharmaceutical formulations of the nucleic
acids, proteins, and antibodies of the present
invention, and diagnostic, investigational, and
20 therapeutic methods based on the PAPP-E nucleic acids,
proteins, and antibodies of the present invention.